

What is claimed is:

*Sig A1* 1. An insect cell line comprising:

2 a) a recipient cell wherein said recipient cell is an insect cell that has been stably  
3 transfected with a first recombinant DNA expression vector comprising a  
4 recombinant DNA that encodes a suppressor of apoptosis such that said  
5 recipient cell expresses said suppressor of apoptosis.

1 2. The insect cell line of claim 1 further comprising a second recombinant DNA  
3 expression vector comprising a recombinant DNA that encodes a selectable marker  
3 cotransfected into said recipient cell.

1 3. The insect cell line of claim 1 wherein said suppressor of apoptosis is encoded by an  
2 *Autographa californica* nucleopolyhedrovirus p35 gene.

1 4. The insect cell line of claim 1 wherein said cell line is resistant to an inducer of  
2 apoptosis.

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1 5. The insect cell line of claim 1 wherein said cell line is resistant to nutrient stress.

1 6. The insect cell line of claim 1 wherein said cell line is derived from a pre-existing  
2 parental insect cell line selected from the group consisting of:

- 3 a) Sf9;  
4 b) IPLB-Sf21;  
5 c) BTI-Tn5B1-4;  
6 d) BTI-MG-1;  
7 e) Tn368;  
8 f) Ld652Y;  
9 g) BTI-EAA;

- 10                   h) any cell line derived from the cell lines listed above; and  
11                   i) any other cell line susceptible to baculovirus infection.

*QbC 2* 7. The insect cell line of claim 1 wherein said recipient cell is also transfected with a recombinant DNA for expression of a recombinant protein.

*QbC 2* 8. The insect cell line of claim 7 wherein said cell line is capable of expressing said recombinant protein at a higher level than that from a parental cell line from which said cell line is derived. *what is the comparison?*

*QbC 2* 9. The insect cell line of claim 1 wherein said cell line is infected by a baculovirus and supports the replication of said baculovirus.

*QbC 2* 10. A cell line comprising:

*QbC 2* a) a recipient cell wherein said recipient cell has been stably transfected with a first recombinant DNA expression vector comprising a recombinant viral DNA that encodes a suppressor of apoptosis such that said recipient cell expresses said suppressor of apoptosis.

*QbC 2* 11. The cell line of claim 10 further comprising a second recombinant DNA expression vector comprising a recombinant DNA that encodes a selectable marker cotransfected into said recipient cell.

*QbC 2* 12. The cell line of claim 10 wherein said suppressor of apoptosis is encoded by an *Autographa californica* nucleopolyhedrovirus p35 gene.

*QbC 2* 13. The cell line of claim 10 wherein said cell line is an insect cell line.

*QbC 2* 14. The cell line of claim 10 wherein said cell line is resistant to an inducer of apoptosis.

*QbC 2* 15. The cell line of claim 10 wherein said cell line is resistant to nutrient stress.

*QbC 2* 16. The cell line of claim 10 wherein said cell line is derived from a pre-existing parental insect cell line selected from the group consisting of:

*QbC 2* a) Sf9;

- 4           b) IPLB-Sf21;
- 5           c) BTI-Tn5B1-4;
- 6           d) BTI-MG-1;
- 7           e) Tn368;
- 8           f) Ld652Y;
- 9           g) BTI-EAA;
- 10          h) any cell line derived from the cell lines listed above; and
- 11          i) any other cell line susceptible to baculovirus infection.

1       17. The cell line of claim 10 wherein said recipient cell is also transfected with a  
2           recombinant DNA for expression of a recombinant protein.

1       18. The cell line of claim 17 wherein said cell line is capable of expressing said  
2           recombinant protein at a higher level than that from a parental cell line from which  
3           said cell line is derived.

1       19. The cell line of claim 10 wherein said cell line is infected by a baculovirus and  
2           supports the replication of said baculovirus.

1       20. A recombinant DNA expression vector for engineering an insect cell line resistant to  
2           apoptosis comprising a recombinant DNA encoding a suppressor of apoptosis.

1       21. The recombinant DNA expression vector of claim 20 wherein said recombinant DNA  
2           is capable of being expressed in an insect cell.

1       22. The recombinant DNA expression vector of claim 20 wherein said suppressor of  
2           apoptosis is encoded by an *Autographa californica* nucleopolyhedrovirus p35  
3           gene.



1       30. The method of claim 26 wherein said cell line is resistant to an inducer of apoptosis.

1       31. The method of claim 26 wherein said cell line is resistant to nutrient stress.

1       32. The method of claim 26 wherein said cell line is an insect cell line.

*Sear* 1       33. The method of claim 32 wherein said cell line is derived from a pre-existing parental  
2                   insect cell line selected from the group consisting of:

3                   a) Sf9;

4                   b) IPLB-Sf21;

5                   c) BTI-Tn5B1-4;

6                   d) BTI-MG-1;

7                   e) Tn368;

8                   f) Ld652Y;

9                   g) BTI-EAA;

10                  h) any cell line derived from the cell lines listed above; and

11                  i) any other cell line susceptible to baculovirus infection.

1       34. The method of claim 26 further comprising cotransfected said host cell with a  
2                   recombinant DNA for expression of a recombinant protein.

1       35. The method of claim 34 wherein said cell line is capable of expressing said  
2                   recombinant protein at a higher level than that from a parental cell line from which  
3                   said cell line is derived.

1       36. The method of claim 26 wherein said cell line is infected by a baculovirus and  
2                   supports the replication of said baculovirus.

*Walters*  
*add B)*